

Wyandotte County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

6/14/2018

Using the most recent IMPLAN data available (2016) adjusted for 2018, 33 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Wyandotte County economy.¹

These 33 sectors have a total direct output of approximately **\$1.47 billion** and support **3,421 jobs** in Wyandotte County. Running the model for all 33 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Wyandotte County Economy						
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵	Output % of Gross Regional Product
Direct Effect	3420.7	2.99%	\$379,602,957	2.93%	\$1,472,168,223	11.38%
Indirect Effect	1624.9	1.42%	\$178,272,581	1.38%	\$309,554,593	2.39%
Induced Effect	748.7	0.65%	\$63,547,315	0.49%	\$104,690,668	0.81%
Total Effect	5794.3	5.06%	\$621,422,853	4.80%	\$1,886,413,483	14.58%

As shown in the above table, agriculture, food, and food processing sectors support **5,794 jobs**, or **5.06%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$1.89 billion**, roughly **14.58% of the economy**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 33 agriculture, food, and food processing sectors is approximately **\$621.4 million**, or **4.80% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **4.80% of the total economy**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the landscape and horticultural services sector is the top employer with **886 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Wyandotte County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Landscape and horticultural services	885.7	\$58,865,431
Wholesale trade	498.3	\$102,096,345
Meat processed from carcasses	494.1	\$259,759,801
Bread and bakery product, except frozen, manufacturing	450.5	\$67,072,204
Cookie and cracker manufacturing	336.1	\$143,955,642
Truck transportation	232.4	\$42,271,962
Dry pasta, mixes, and dough manufacturing	226.4	\$153,537,261
Other animal food manufacturing	151.6	\$202,654,620
Rendering and meat byproduct processing	123.5	\$62,452,302
Frozen fruits, juices and vegetables manufacturing	94.4	\$40,941,890

The meat processed from carcasses sector directly contributes approximately **\$259.8 million** to the Wyandotte County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Meat processed from carcasses	494.1	\$259,759,801
Other animal food manufacturing	151.6	\$202,654,620
Dry pasta, mixes, and dough manufacturing	226.4	\$153,537,261
Cookie and cracker manufacturing	336.1	\$143,955,642
Dog and cat food manufacturing	81.6	\$116,523,065
Wholesale trade	498.3	\$102,096,345
Nitrogenous fertilizer manufacturing	34.5	\$74,126,206
Bread and bakery product, except frozen, manufacturing	450.5	\$67,072,204
Fats and oils refining and blending	36.7	\$63,899,868
Pesticide and other agricultural chemical manufacturing	39.3	\$62,992,699

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Wyandotte County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	7.1	\$1,737,346.44
Grain farming	10.8	\$910,227.14
Vegetable and melon farming	3.9	\$411,869.68
Fruit farming	3.0	\$154,461.89
Tree nut farming	0.0	\$43.47
Greenhouse, nursery, and floriculture production	2.8	\$256,958.31
All other crop farming	4.7	\$83,786.26
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	53.1	\$1,377,874.92
Poultry and egg production	0.5	\$166,667.44
Animal production, except cattle and poultry and eggs	43.5	\$1,364,876.33
Dog and cat food manufacturing	81.6	\$116,523,065.21
Other animal food manufacturing	151.6	\$202,654,620.01
Flour milling	40.2	\$55,115,071.02
Fats and oils refining and blending	36.7	\$63,899,868.19
Frozen fruits, juices and vegetables manufacturing	94.4	\$40,941,889.99
Canned fruits and vegetables manufacturing	40.1	\$19,609,822.88
Meat processed from carcasses	494.1	\$259,759,800.77
Rendering and meat byproduct processing	123.5	\$62,452,302.14
Bread and bakery product, except frozen, manufacturing	450.5	\$67,072,204.07
Frozen cakes and other pastries manufacturing	4.7	\$792,930.18
Cookie and cracker manufacturing	336.1	\$143,955,641.58
Dry pasta, mixes, and dough manufacturing	226.4	\$153,537,260.77
Tortilla manufacturing	2.6	\$435,494.18
Bottled and canned soft drinks & water	29.4	\$24,608,496.29
Wineries	6.8	\$1,852,630.16
Sawmills	22.0	\$5,171,572.82
Nitrogenous fertilizer manufacturing	34.5	\$74,126,205.67
Pesticide and other agricultural chemical manufacturing	39.3	\$62,992,698.86
Farm machinery and equipment manufacturing	26.3	\$13,171,963.40
Food product machinery manufacturing	71.2	\$22,215,103.31
All other industrial machinery manufacturing	40.0	\$10,392,995.91
Veterinary services	53.2	\$5,557,042.87
Landscape and horticultural services	885.7	\$58,865,430.55

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Wyandotte County, the retail sector was omitted.